

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 05-116998

(43)Date of publication of application : 14.05.1993

(51)Int.Cl.

C04B 12/02  
A61K 6/033  
A61L 25/00  
A61L 27/00

(21)Application number : 03-283213

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(22)Date of filing : 29.10.1991

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(54) GRANULAR CALCIUM PHOSPHATE CEMENT AND PRODUCTION THEREOF

(57)Abstract:

PURPOSE: To easily produce calcium granular phosphate cement which is capable of being easily filled into a bone defective part having an arbitrary shape, a bone gap part, a bone absorption part and furthermore an extracted tooth recess and is very available for transport of nutrition and formation of a newly formed bone because granular calcium phosphate cement is early converted into apatite after hardening and the whole filler is hardened into a block-shape having gaps and moreover is excellent in maintenance of an initial shape after surgery and almost free from the possibilities of leak from the filled part and shortens a time necessary for cure.

CONSTITUTION: Granular calcium phosphate cement is constituted of powder wherein  $\alpha$ -type calcium tertiary phosphate and calcium primary phosphate are mixed at the rate of 1.35-1.49 molar ratio of Ca and P as a main component. The shortest diameter of this powder is regulated to 0.11.0mm.

## LEGAL STATUS

[Date of request for examination] 04.04.1994

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 2626358

[Date of registration] 11.04.1997

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]